



Universiteit  
Leiden

The Netherlands

## Characterization of age-associated immunity in atherosclerosis

Smit, V.

### Citation

Smit, V. (2024, September 12). *Characterization of age-associated immunity in atherosclerosis*. Retrieved from <https://hdl.handle.net/1887/4083231>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/4083231>

**Note:** To cite this publication please use the final published version (if applicable).

# Stellingen

Behorende bij het proefschrift

## Characterization of age-associated immunity in atherosclerosis

1. Age and sex are important factors to consider in the search for novel immunotherapeutic targets in atherosclerosis. (This thesis)
2. In contrast to the rapid development of atherosclerosis in young *Apoe*<sup>-/-</sup> mice or *Ldlr*<sup>-/-</sup> mice fed with a Western diet, atherosclerosis is a slow and gradual process that takes time to develop and progress. (This thesis)
3. Studies in chow diet-fed aged *Ldlr*<sup>-/-</sup> mice enable identification of age-associated immune cell targets that are otherwise overlooked in young atherosclerosis mouse models. (This thesis)
4. CD21<sup>low</sup> age-associated B cells have a pro-atherogenic role in atherosclerosis. (This thesis)
5. Utilization of unbiased single-cell technologies allows for an accurate representation of cellular heterogeneity in the atherosclerotic plaque environment. (Adapted from Eberhardt & Giannarelli. *Arterioscler Thromb Vasc Biol.* 42:243–252 (2022))
6. Biological aging serves as a tool to detect cardiometabolic multimorbidity and mortality to enable early intervention and subclinical prevention. (Adapted from Jiang et al. *Nat Cardiovasc Res.* 3:332–342 (2024)).
7. A chili pepper a day keeps the cardiologist away. (Adapted from Qin et al. *Nutrients.* 20;9(9):1037 (2017))
8. Regular exercise helps restore certain features of immunosenescence. (Adapted from Papp et al. *Front Immunol.* 12:639308 (2021))
9. De esthetische presentatie van figuren speelt een cruciale rol bij het benadrukken van de inhoudelijke waarde van een artikel.
10. Een promotietraject wordt als positiever ervaren door gracieus te blijven tijdens tegenslagen: always stay gracious, best defense is your paper. (Adapted from Beyoncé Knowles)
11. Het doel van aangrijpen op veroudering is het verlengen van de kwalitatieve levensduur: in the end, it is not the years in your life that count, but it is the life in those years. (Adapted from Abraham Lincoln)

Virginia Smit

Leiden, 12 September 2024